

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: jim parsons <k5rov@webstar.net>  
Subject: [2417] 2 WATTS OF PURE POWER...  
Message-ID: <1.5.4.16.19960810213437.10c77814@webstar.net>

I HAD A GREAT EXPERIENCE TODAY. I CALLED CQ ON 14060 RUNNING FIVE WATTS. I GOT AN ANSWER FROM WAYNE, N6KR, OPERATING FROM HIS VW CAMPER AT A CAMPSITE. HE WAS RUNNING HIS NORCAL, AND A RANDOM PIECE OF WIRE, END FED, STRUNG UP IN A TREE. HIS POWER WAS 2 WATTS.

I HEARD ANOTHER QSO ON THE FREQUENCY, AND HAD BAD PACTOR QRM. STILL, WAYNE WAS POUNDING THROUGH. WE CARRIED ON A QSO FOR ABOUT 15 MINUTES. I WAS RUNNING A YEASU FT-1000 WITH THE POWER TURNED DOWN, AND A YAGI UP 50 FEET. WHEN HE FIRST CALLED ME, I HAD THE BEAM POINTED TO THE NORTHEAST. I HEARD HIM EVEN ALMOST OFF THE END OF THE BEAM.

I AM NOT NEW TO QRP, BUT I GOTTA ADMIT I STILL GET A BIG THRILL OUT OF IT. EVERY CONTACT IS EXCITING. AND, I HAVE DECIDED I JUST GOTTA GET ONE OF THOSE NORCAL SIERRAS.

BUT, I HAVE TO AGREE WITH THE WRITER THAT COMPLAINED ABOUT THE DIGITAL TRAFFIC ON THE QRP FREQUENCY. IT IS REALLY ROUGH WHEN THAT STUFF COMES ON. BUT, IT ALSO MAKES A BETTER OPERATOR OUT OF US AS WE FIGHT TO COMPLETE A QSO.

QRP IS GREAT. I WISH WE COULD GET MORE ON IT. I REALLY SHOULD CONVERT MY HW-8 TO 30 METERS. NO, I THINK THE NEXT PROJECT IS THE NORCAL.

73

JIM, K5ROV  
SAN ANGELO, TX

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: bfollett@ditell.com  
Subject: [2400] Batteries -- Again  
Message-ID: <199608101622.KAA09214@orion.ditell.com>

Gang:

Brad recently asked:

<< What ideas are out there? for instance, Are there

any new ideas for batteries, maybe flat ones that would fit in any rig? etc.>>

My recent find: Sony NP-500 battery pack for a camcorder. You need two of them, and the specs are:

7.2V 1000mAh, weight 2 Oz!!, 2 3/4 X 1 1/2 X 7/8", Lithium Ion. They have nice 1/8" metal lined holes for attaching "non-standard" wire too.

Two of these would fit in a 40A, add 4 Oz, and could be made smaller/lighter if one were to remove the protective plastic case.

At 14.4 nominal voltage, you will get more power out of your rig (change the protection zener like Wayne B. says though), and 1000mAh will last you quite a while.

Cost? I am guessing around \$45 each, but I really don't know. (I got one free, tripping over it in the street). High cost, but if the weight and size are important, nothing will beat Li-ion today.

73, Bob

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Bob Follett WA7FCU, QRP-L # 129, NorCal, ARCI, 10-10, ARS  
2861 Estates Dr. VOICE: 801.649.6457  
Park City, UT 84060 E-mail: bfollett.ditell.com

From owner-qrp-l@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: jim parsons <k5rov@webstar.net>  
Subject: [2402] CMOS KEYERS  
Message-ID: <1.5.4.16.19960810112759.1ba77adc@webstar.net>

I HAVE JUST COMPLETED A CMOS-III KEYS AND ALSO HAVE A CMOS II KEYS, BOTH OF WHICH RUN OFF OF BATTERIES. I PLAN ON USING 12 VOLT INPUT, THROUGH A 7805, TO RUN THE KEYS. BUT, I WOULD LIKE THE BATTERIES TO STAY IN PLACE FOR WHEN I REMOVE EXTERNAL POWER.

I PLAN ON USING A DIODE TO PREVENT THE EXTRA HALF VOLT OUT OF THE REGULATOR FROM CAUSING CURRENT FLOW THROUGH THE BATTERIES. I HAVE ALSO CONSIDERED USING ANOTHER DIODE TO PREVENT CURRENT FROM FLOWING THROUGH THE 7805 WHEN EXTERNAL POWER IS REMOVED (I DON'T KNOW IF IT WOULD).

I NOTICE THAT IN OTHER CIRCUITS I HAVE SEEN, THEY USE TWO DIFFERENT TYPES OF DIODES IN THIS KIND OF CIRCUIT. THAT IS, THE DIODE ISOLATING THE REGULATOR IS DIFFERENT FROM THE ONE THAT ISOLATES THE BATTERIES. I WONDER WHY THAT IS SO?

ALSO, I HAVE A CMOS-II K-1 KEYSER THAT WAS MADE BY IDIOM PRESS. I NOTICE IT HAS TWO DIODES FOR ISOLATION BETWEEN THE REGULATOR AND BATTERIES, BUT THEY DON'T STATE WHAT KIND OF DIODES THEY ARE USING.

CAN ANYONE ASSIST ME? I REALLY DON'T WANT TO BLOW A CHIP. I DON'T HAVE THE SOURCE CODE TO PROGRAM ANOTHER CHIP, AND WOULDN'T KNOW HOW TO DO IT IF I DID.

THANKS AND 73

JIM, K5ROV

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: Charles Brown <maf00035@maf.mobile.al.us>  
Subject: [2388] Dead band?  
Message-ID: <Pine.SOL.3.91.960810041102.10322A@ns1>

20 meters is open at 1000z on what appears to be a dead band.  
A Pactor link with TG9QQ in Guatemala was established at 0400 local  
and a message passed-- signals S-0 but the traffic flow was very good.  
No other signals on the band.  
Power level was 50 watts and the antenna was a 4 el beam pointed towards  
Guatemala. A beam on the other end is also used.  
N4SO

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: wk9t@FreeMark.COM (Rod Logsdon)  
Subject: [2408] DX-70T QRP?  
Message-ID: <199608102108.RAA22071@fmserver-f0.freemark.com>

Does anyone know of a mod or adjustment to get the low power  
setting on an Alinco DX-70T down below 5 watts without  
affecting the high power setting.

TNX es 72/73 de Rod Logsdon WK9T  
wk9t@freemark.com

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: kd7s@psnw.com (Bill Jones)

Subject: [2403] Free Batteries

Message-ID: <199608101802.LAA24032@psnw.com>

A while ago I asked for some discarded batteries at a 2-way shop in town. I was looking for some small ni-cad packs normally used in commercial handhelds. I ended up with a box full of batteries in every size and shape you could imagine--free. Most of them wouldn't hold a charge so I dismantled several packs and checked the voltage at each cell. As often as not I would find one cell that was completely flat but the rest were okay. After removing the bad cell from the string and replacing it with another good one, I have a good pack. Thus far I have managed to rejuvenate a battery pack for a 2-meter HT as well as putting together some nice little packs for some of my QRP rigs. You may also try electric razor shops for sources of batteries. It takes a little work but the results are worth the effort. I now have an endless supply of ni-cads for my projects.

=====

Bill Jones - KD7S <><

Sanger, California

Reply to kd7s@psnw.com

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From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996

From: jps@kodak.com (John P. Spoonhower)

Subject: [2404] FS: original Norcal 40

Message-ID: <9608101851.AA29629@lumi.Kodak.COM>

Guys, as much as I hate to do this, I'm putting my Norcal 40 up for sale. It's the original club version with no mods, and the silk-screened front panel. It's in Ecx....pfft...excellent condx. I'm asking 115\$ with shipping included in the continental USA.

72, John, kc2du

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996

From: k7yha@juno.com (Richard H. Arland)

Subject: [2415] Hallicrafters HT-1E QRP rigs

Message-ID: <19960811.015358.4447.4.k7yha@juno.com>

Gang:

Ran across a steal of a deal. there is an outfit in Flordia that is selling off the last of 5000 Hallicrafters HT-1E "Village Radios". These

are AM HTs that were made for SF units to give to Viet Nameese villages and allow them to communicate with ground forces in the immediate area.

Power output is under 1 watt. Single channel, xtal controlled, 30-50 MHz, AM voice, ANL %& squelch, works on internal 12 volts (8 D-cells) or external 12 volt supply, telescoping whip antenna. There was also a dual channel version (HT-2A) that had a VHF converter on it that allowed TX/RX on 115 thru 135 MHz. Unfortunately, this company does not have any of the HT-2As available.

Cost of the HT-E is about \$20/ea including shipping (to PA). These are new units, still in the box with documentation. The Chuck Dachis book on Hallicrafters radios says that this unit will tune 30-40 MHz, but the ad says 27-50 MHz. Looks like these things will go on 10 meters for sure, and most likely, 6 meters with some tweaking.

They have about 100 units left at \$18./unit not including shipping. I don't have the ad here but it was in the last two issues of Popular Communications. Monday, I'll get the ad and post the phone number.

This looks like a super deal. For about \$20 you get a cheap 10 meter rig that is quite unusual and a bit of history, all in one package. (Now if I could only get my hands on a PRC-77, GRC-64 and a GRC-68, I'd die a happy ham!).

72 rich

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: Allen Jones <ajones@adsnet.com>  
Subject: [2413] HW-7 Power Supply  
Message-ID: <199608102332.SAA22445@alice.adsnet.com>

While packing up things to take to a local hamfest I came across a Heathkit model HWA-7-1 accessory power supply. It was sold for use with the HW-7 and I believe the HW-8 also. It is in good condition with the manual. I'll ship it prepaid anywhere in the lower 48 for \$25.

72/3 de Allen, K9DZE  
ajones@adsnet.com

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: "j.w. thornton" <dub@oklahoma.net>  
Subject: [2394] Keyboard not CW?

Message-ID: <199608101515.KAA01958@dns.okc>

Well, there seems to be quite a range of opinions as to what constitutes CW. Of course, like everyone else I DO have opinions along these lines. One thing I would like to stress tho, is that my opinion is just that, my opinion. It may not be the ONLY solution, the RIGHT solution, nor even the BEST solution.

I currently have set up on my desk, a handkey, a bug, three paddles (iambic cuz that is what I have) and two computers with homebrew interfaces for generating CW. The homebrew keyboard using the TI-99 keyboard and a Heathkit ultrapro sit on the shelf due to lack of room on the desk. All keying devices are paralleled, ready to go with the tap of a finger, and I love & use them all, sometimes in the same QSO. The handkey does receive less use, due to lack of proficiency on my part. The point is, these are all ways to generate CW. GOOD CW??? Depends on each individuals ability and effort AND it depends on the speed you wish to operate CW. Anything above abt 20WPM with a handkey, or 35 WPM with bug or paddle begins to thin out the operators in a hurry. Above 40WPM is mostly keyboard territory. There are a few exceptions, but about as scarce as hens teeth.

The keyboard CAN be a very useful tool for improving your code speed, both copy and sending. To improve on ones copy speed, one needs to copy at a speed that is above your ability to copy solid. (perhaps 75-80 percent copy) A screen copy can be used to fill in the gaps here and there while using the computer to improve copy speed. Just dont learn to rely on the screen for your copy, use it as a tool to improve your speed.

The question was asked, "why do you want to increase your speed above ?? wpm? Just relax and enjoy." If you ask that question, speed is obviously not important to you, but I think most of us would love to be able to communicate at higher speeds than we currently are capable of. CW can be enjoyable at most any speed, but below 20WPM drives me up a wall, but I find no fault with those that enjoy such speeds. Do your own thing and let others enjoy theirs.

There was also a remark made that most keyboard ops use screens to copy. I do not find this to be the case at all. In fact, you might be surprised, even dismayed if you try sending with a handkey, bug or paddle into a computer. They do a fine job of copying machine generated CW, but many fists that sound great to the ear will not print well on a computer.

Just my rambling opinion on a subject I love, CW. My interface for the computer consists of one transistor and one resistor, no copy. Not cuz I object to screen copy, but transmit is much simpler and requires no power source. I am not one of the true "ole timers", having only been licensed 27 years, but can go back 40 years on pounding the brass.

Whatever the means of generating CW, lets enjoy it. There is room for all.  
"72"

J. W. (Dub) Thornton WA5YFY  
Minco, Ok.

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: wk9t@FreeMark.COM (Rod Logsdon)  
Subject: [2416] MFJ-9020 FS  
Message-ID: <199608110203.WAA00992@fmserver-f0.freemark.com>

MFJ-9020, 20 mtr CW/QRP XCVR with MFJ-4112 Power Pack.

Sell both for \$135 OBO + Shipping.

Rod Logsdon WK9T  
630-293-0763

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: "Arjen Raateland, SYKE/YV, puh. 90-4030 0457" <Arjen.Raateland@vyh.fi>  
Subject: [2405] Mods for the Sierra audio circuit.  
Message-ID: <01I84M32K5NY8WXZYG@vyh21.vyh.fi>

Gang,

I felt the audio level of the sidetone and the KC-1 output in my Wilderness Sierra was on the low side, so I set out to improve matters. This is what I came up with after some thinking and experimenting:

\*\*\*\*\* begin of mod description \*\*\*\*\*

Mod #1:

Change R27 from 22 Ohms to 4.7 Ohms. This improves stability of the LM386 in the higher frequency range and helps prevent a rattling extra noise which occurred in my Sierra at the highest volume setting with heavy loads (4 or 8 Ohms LS).

Mod #2:

Change C6 on the KC-1 from 1 nF to 3.9 nF or put 2n7 in parallel on

the track side of the board. I have used an Ra of 100 kOhms from the KC-1 to point AF on the Sierra (ext. AF input). Increasing C6 balances the volumes of the internal sidetone and the KC-1 audio output. The same result may possibly be obtained by taking e.g. 27 k for Ra. I haven't tried this, though.

Change C21 to 150 pF (was 10 nF). Disconnect R30 at the side of pin 3 of the LM386 and connect the free end to the drain of a 2N7000 switching mosfet. Connect the source to pin 3 of the LM386 and the gate to point M (ext. mute).

R30 is needed at power-on time to prevent unbalance in the LM386 which would lock up the AGC for some time. In the original circuit R30 also feeds the unbalanced sidetone signal from pin 3 to pin 2 of the LM386. R30 forms a voltage divider with the input impedance of pin 2, as a result of which the LM386 actually 'sees' just a small part of the sidetone signal.

After the modification R30 is effectively taken out of the circuit whenever the RX is muted. This leaves pin 2 with no signal input, but pin 3 will have the full signal as before. The differential input signal to the LM386 is therefore higher than before and the sidetone output level will be increased significantly.

Be sure to readjust sidetone level with R29 so that the AGC doesn't attack on the sidetone. At too high levels an RX gain reduction will be noticeable for some time after muting ends. In my Sierra R29 is now set at ca. 25% of its full travel.

C21 can also be left unchanged at 10nF, but in that case it has to be connected in parallel with R30 in its new position.

Check the results at extreme conditions like with a low valued load on the LM386 and at the highest volume setting. Key transmitter and press the frequency button of the KC-1 to see if the transitions are clean.

\*\*\*\*\* end of mod description \*\*\*\*\*

If any of you do these mods, please let me and the list know how it works out.

Other subject: There were good conditions on 15 m yesterday. I heard several PY's and a CX from South America. Also 8P6 Barbados and LW4DWN in La Plata. I didn't work any of them, but the band was open till late in the evening. Some stations had quite comfortable code speeds, but they didn't seem to be interested much in intercontinental QSO's. Well, you've got to hear 'em first, of course. Antenna is 2x19 m wire fed in the centre with open line and a balanced tuner.



cheerio es 73,  
Arjen Raateland, OH2ZAZ  
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From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: Bill Todd - N7MFB <bill@techline.com>  
Subject: [2387] NWQ E-Mail Newsletter (ZAPPed)  
Message-ID: <1.5.4.16.19960809234527.26ef0520@wishkah.techline.com>

Hi folks -

I FINALLY got JUNO re-installed (but I had to create a new user name,  
i.e, nwqemail@juno.com) to do it.

According to K5ROV (Jim), he got all 10 pages, so I guess it works. If any  
of the E-Mail members did NOT get all the pages, please send me a note.

Thanks -

Bill Todd - N7MFB

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: Ron Giuntini <rong@slip.net>  
Subject: [2397] Plastic Boxes  
Message-ID: <E0upGPJ-00020N-00@mouse.slip.net>

Possibly could be screened to RF by using mesh brass or other metal material  
attached to each side. You will still see through it but its RF screened.

Ron KB6GK  
NorCal #1718  
San Francisco

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996

From: "Kerry W. Miller" <kmiller@flash.net>  
Subject: [2392] Really Big Slide Rules  
Message-ID: <2.2.32.19960810133744.0068cd0c@pop.flash.net>

Man, it just hit me - I'M AN OLD TIMER! At 36! I don't know if I should be relieved or depressed...

I had a professor with one of those big ol' wood slide rules. It hung just above his blackboard. I think he only used it once, just to show us that he could.

Let's see, staple a little wire to the big parts, use the little part with the line as a center conductor and to hold the feedline (twin lead, naturally)...

Kerry  
WD5ABC

From owner-qrp-l@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: Gary Surrency <gsurrenc@ix.netcom.com>  
Subject: [2385] RPN, HP, TI, and arthritis  
Message-ID: <320C1181.2905@ix.netcom.com>

Hey, all my old TI calcs' got jittery keys and bounce numbers all over the place! Guess they have arthritis. Does that mean when I get old I will be able to use them again? The HPs seem immune to this affliction.

(No offense to our elder QRPers meant)

Never throw anything away, 'cause one day it will be valuable as an antique.

PS, the TIs are TI-55-II and the HPs are HP11Cs.

73,  
--

Gary, AB7MY QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: Ken Freedman <n1qqvken@iconn.net>

Subject: [2412] Teaching Slide Rule  
Message-ID: <320D15BF.1630@iconn.net>

>then just imagine if someone were to track down a  
>> giant contraption like that and then hang it on a modern hamshack  
>wall

Someone on the list mentioned the large sliderules that were used for demonstration in math classes. I obtained one from a high school physics teacher some years ago. He had a closet full. They don't teach the slide rule since the advent of pocket calculators.

Mine was made by the "Picket All American Slide Rule Company". It is a Model 1010 ES, about 6 feet long, nearly a foot tall and painted yellow with black lettering. It sits on top of an open beam in my family room, and is a great conversation piece. Guess this makes me a bonafide nerd!

No, it's not for sale, and the teacher has since retired and moved away. But it might pay to check with your local school system math department if you want one.

73, Ken

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: Jerry Parker <jparker@fix.net>  
Subject: [2398] Ten Tec PM3  
Message-ID: <2.2.32.19960810161652.00b70a00@fix.net>

I am looking for a PM3. Anyone have one they are willing to part with?

72,,,Jerry...K

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: RobCap@aol.com  
Subject: [2414] The KC2 Lives!  
Message-ID: <960810210122\_256642401@emout18.mail.aol.com>

Hi folks-

I wanted to report that my pre-production KC2 is on the air and works perfectly!

The unit provides 1) digital freq counter, 2) RF meter, 3) S meter, and 4) memory keyer.

Wayne's documentation is perfect. The unit goes together easily in about 1 to 2 hours, and was interfaced to the Sierra in about an hour. It's a very clean kit that's really a pleasure to put together.

Wilderness is planning to market a custom made front panel for the Sierra that is screened and punched for the KC2. The panel isn't quite ready yet, so I fashioned a temporary front panel out of card stock to hold the KC2 in place.

QRP kit owners: this is a gotta-have accessory for your kit. The ultimate "Swiss Army Knife" accessory.

Am not monitoring the QRP-L, so please reply to: Robcap@AOL.com

73,

Rob, WA3ULH

From owner-qrp-l@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: Dan Keen <70731.722@compuserve.com>  
Subject: [2386] The Nerd's Badge  
Message-ID: <960810052122\_70731.722\_EHM70-1@CompuServe.COM>

Did anybody go to engineering school in olden days (not me)? If so, then did a professor use an oversized sliderule for teaching purposes? I mean a RE-AH-LY huge one? If so, then just imagine if someone were to track down a giant contraption like that and then hang it on a modern hamshack wall as a sort of statue to nerdism <g>.

From owner-qrp-l@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: "J. Skalski" <jskalski@acsu.buffalo.edu>  
Subject: [2390] trade for kc2  
Message-ID: <Pine.GS0.3.93.960810075842.12300A-1000000@autarch.acsu.buffalo.edu>

Hello,

With all this talk about keyboards....

I would like to play with a KC2. I don't need a new keyer and probably don't need a digital readout. I also don't need to know my power output every time I transmit. So why get a KC2? It sounds like a neat toy.

I have a CMOS superkeyer II with batteries and speaker in a metal case or a homebrew keyboard without a case for trade.

I have 2 other homebrew keyboards and a keyer that I could not live without, :-)

73,

Jim N2GO  
The Buffalo QRP CONNECTION  
ARCI #9013 QRP-L #381  
jskalski@acsu.Buffalo.EDU

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: "Robert J. Gobrick" <rgobrick@nfld.com>  
Subject: [2407] Re: CMOS KEYERS  
Message-ID: <2.2.32.19960810200029.0085b5b0@public.compusult.nf.ca>

Hi Jim,

I'm curious how much current the new CMOS III draws while it's idle or asleep? My CMOS II has had the same three AA batteries in for about two years and I see no need to worry about them. I am now favoring that all my keyers be battery powered so there's one less cord to squirrel around the operating table.

Is 12 volts needed for the CMOS III since I am thinking of buying one.

Cheers 73/72 Bob V01DRB/WA6ERB

At 12:16 8/10/96 CDT, you wrote:

>I HAVE JUST COMPLETED A CMOS-III KEYS AND ALSO HAVE A CMOS II KEYS, BOTH  
>OF WHICH RUN OFF OF BATTERIES. I PLAN ON USING 12 VOLT INPUT, THROUGH A  
>7805, TO RUN THE KEYS. BUT, I WOULD LIKE THE BATTERIES TO STAY IN PLACE  
>FOR WHEN I REMOVE EXTERNAL POWER.

>THANKS AND 73

>

>

>JIM, K5ROV

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| Bob Gobrick - V01DRB/WA6ERB/VE2DRB - Newfoundland, Canada |  
| QRPer Galore - QRP ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |

| Internet: rgobrick@nfld.com |  
Compuserve: 70466.1405@compuserve.com

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: "J. Skalski" <jskalski@acsu.buffalo.edu>  
Subject: [2409] Re: CMOS KEYERS  
Message-ID: <Pine.GS0.3.93.960810172858.28342A-100000@lictor.acsu.buffalo.edu>

Hello,  
The ultra low current requirement of the design has been retained.  
In idle or sleep mode the microprocessor draws about 10uA. The external  
EEPROM adds no idle current.

I built mine in a cast aluminum case. It has 6 push buttons, a speed pot, a  
jack for the paddle and output jack. It also has three AA cells in holders  
and an internal speaker.  
The outside dimensions of my box are 3"x2.5"x1-5/8".

Has anyone built it in a smaller enclosure? It makes my bencher paddle  
look pretty big.

BTW I have a CMOS superkeyer II and have had the same batteries in it for  
several years also. They keep going and going and.....:-)

73,

Jim N2GO  
The Buffalo QRP CONNECTION  
ARCI #9013 QRP-L #381  
jskalski@acsu.Buffalo.EDU

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: "Robert J. Gobrick" <rgobrick@nfld.com>  
Subject: [2410] Re: CMOS KEYERS  
Message-ID: <2.2.32.19960810205205.00999010@public.compusult.nf.ca>

Hi Jim,

Where did you get the cast box for your CMOS III - any tricks involved in

getting it all to fit?

Thanks Bob V01DRB/WA6ERB

At 17:38 8/10/96 -0400, you wrote:

>I built mine in a cast aluminum case. It has 6 push buttons, a speed pot,a  
>jack for the paddle and output jack. It also has three AA cells in holders  
>and an internal speaker.

>The outside dimensions of my box are 3"x2.5"x1-5/8".

>

>Has anyone built it in a smaller enclosure? It makes my bencher paddle  
>look pretty big. 73,

>

> Jim N2GO

>

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-----  
| Bob Gobrick - V01DRB/WA6ERB/VE2DRB - Newfoundland, Canada |  
| QRPer Galore - QRP ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |  
| Internet: rgobrick@nfld.com |  
| Compuserve: 70466.1405@compuserve.com |  
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From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996

From: "J. Skalski" <jskalski@acsu.buffalo.edu>

Subject: [2411] Re: CMOS KEYERS

Message-ID: <Pine.GS0.3.93.960810175947.28342B-100000@lictor.acsu.buffalo.edu>

The box was acquired new at a hamfest. I bought it with the idea of building a qrp wattmeter in it. A miniature WM-1. i would have had to cut up the circuit board in to many pieces. Also the smallest, "quality" meter I had was a Calectro 1 ma meter which is about 1" x 1" . That would have been too hard to read or redo the dial.

I ended up getting a meter that was the same size as the WM1, but simpson quality. I made a new dial face by using a variable size copier. I copied the face shown in the feedback article for the original qst description of the W7el wattmeter. That will have to go in a box made of PCB.

To shoehorn all the goods (CMOS keyer) into the box I had to make a lot of measurements with my dial micrometer before the first hole was drilled. I did make one miscalculation though. when I tried to mount the stereo jack for the paddle, I found that the back wall of the box was too thick. I couldn't attach the famous knurled nut. I had to overdrill the outside of the box so the nut would purchase the threads. Also I ran down the

first set of batteries in 1 hour due to a short. Go figure...the board shorted out on

the above mentioned stereo jack #\$\$%\*.

A small adjustment to the circuit board on its standoffs solved that..

along with a small bend of the solder tabs on the jack.

BTW the speaker was mounted under the circuit board. The height of the standoffs was "adjusted" with a bench grinder so that a squished packing peanut held the speaker in place.

The speaker is an earphone from a junked cordless phone. It is only .3"thick. The grill for the speaker was made from a piece of .1"spaced vector board. This was "adjusted" also on the bench grinder to press fit into a 5/8" hole in the top of the box. The grill was then glued in place, the whole box was then sanded,primed and painted with epoxy paint.

The push buttons are Radio Shack specials. They are subminiature.

I spaced them so that I could either press one or a pair at a time with only one finger. If you are familiar with the superkeyer; you know that 1-2,and 5-6 get pushed together a lot.

To do this I laid out the top dimensions of the push buttons on graph paper. Then I laid my finger on the top, pretending to be operating :-)

I've got to get a life:-))

I hope this helps.

73,

Jim N2GO

The Buffalo QRP CONNECTION

ARCI #9013 QRP-L #381

jskalski@acsu.Buffalo.EDU

On Sat, 10 Aug 1996, Robert J. Gobrick wrote:

> Hi Jim,

>

> Where did you get the cast box for your CMOS III - any tricks involved in  
> getting it all to fit?>

> >The outside dimensions of my box are 3"x2.5"x1-5/8".

> >

> >Has anyone built it in a smaller enclosure? It makes my bencher paddle  
> >look pretty big.

73,

> >

Jim N2GO

> >

>

> |-----  
> | Bob Gobrick - VO1DRB/WA6ERB/VE2DRB - Newfoundland, Canada |



```
> | QRPPer Galore - QRP ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |
> | Internet: rgobrick@nfld.com |
> | Compuserve: 70466.1405@compuserve.com |
> |-----|
>
>
```

From owner-qrp-l@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: Craig LaBarge <74740.3166@CompuServe.COM>  
Subject: [2401] Re: How to send CW outside of a straight key.  
Message-ID: <960810162446\_74740.3166\_EHB96-1@CompuServe.COM>

Bob V01DRB/WA6ERB wrote:

```
>MY advice to you - go for an iambic key (two paddles) something like a
>Bencher or Vibroplex Brass Racer (buy a used one here on the qrp-l list) and
>go for a type Mode B memory keyer (Curtis chip, MFJ etc) and learn to use
>both together. After that there is NO turning back to any other sort of
>key/keyer.
```

I had always been a die-hard straight key user, ever since I first learned the code in Navy radio school back in 1971. About a year and a half ago, I was starting to experience some pain in my arm and decided it was time to switch to a keyer. I came to QRP-L seeking wisdom and guidance about keyer modes, paddles, and the like. Bob gave me the exact same advice back then and it has worked out well for me. (Thanks, Bob!) After a short while, using the keyer became second nature. It's hard to imagine going back to the straight key for any extended period of time.

I hated to retire my faithful straight key, but I'm enjoying CW more than ever now. From time to time, I still take out the old straight key and think about my first QSO way back when.

So, get on the air, have fun, and crank out that morse...by whatever means suits you!

73, Craig WB3GCK

WB3GCK TMPs 1996 Qs=62 States=24 Confirmed=03 DX=08  
AL CT DC DE FL GA IA IN KY KS MA MI MN MO MS NC NH NJ NY OH PA RI SC TN WI  
CM6 EA9 FG HG5 LZ1 TI4 VE YT7

From owner-qrp-l@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: Doug Henry <dhenry@SIRNet.mb.ca>  
Subject: [2382] Re: HP - The Nerd's Badge of Honor  
Message-ID: <Pine.LNX.3.91.960809234045.23183F-100000@sir1.sirnet.mb.ca>

Please stop this discussion about rpn calculators and slide rules. I went and got out my old hp 21, my hp 29c, placed them in front of my versalog slide rule and remembered the good old days when engineers ruled.  
cheers, doug ve4std

From owner-qrp-l@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: Gary Surrency <gsurrenc@ix.netcom.com>  
Subject: [2383] Re: KEYBOARD NOT CW?  
Message-ID: <320C0CBF.158E@ix.netcom.com>

jim parsons wrote:

>  
> I HAVE BEEN A ON CW FOR OVER 55 YEARS. I HAVE USED A STRAIGHT KEY,  
>  
> LETS ENCOURAGE CW, NOT DISCOURAGE IT, HOWEVER IT IS SENT.

Well said, Jim. I use a homebrew keyboard and a Bencher. It all depends on where I'm at and how I feel. It's all CW. Your reasons are very clear and commendable.

73,

--

Gary, AB7MY QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: DCrespy@aol.com  
Subject: [2393] Re: Newbee info, rigs/bands etc.  
Message-ID: <960810101155\_381463473@emout16.mail.aol.com>

Gang,

It occurred to me reading an advice to newbee's reply (and we do do a lot of them.. and I think this is one of the great things about ham radio...)...that a decent general coverage HF receiver capable of cw and ssb (w/ BFO) is probably an essential part of a beginners HF station.. He/She can get it as part of a commercial HF rig or buy a separate one.. A decent old tube receiver (yes they last a long time) would be fine, or an older kenwood or...??? Remember when we suggest one of the kits (SW 40 for example) that

the receiver or a good counter will be required to build the kit!!

72 Harry KG5LO Saline MI

From owner-qrp-l@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: Gary Surrency <gsurrenc@ix.netcom.com>  
Subject: [2384] Re: NorCal WWW Page  
Message-ID: <320C0D7A.5299@ix.netcom.com>

Mark Carter wrote:

>  
> On Fri, 9 Aug 1996, Dan Hogan wrote:  
>  
> > What HTML is the NorCal page written with? When I go there All I see is a  
> > blank yellow page, I can see the home page. Using Internet Chameleon.  
>  
> I have the same problem. Using I-Comm, all I get is a blank screen when  
> it connects. However, using Lynx, I can get everything, but unfortunately  
> Lynx is text-only.

Guys, get a hold of Netscape and join the HTML world. It's even available  
free on their web site for a limited time version.

73,

--

Gary, AB7MY QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>  
Subject: [2389] Re: NorCal WWW Page  
Message-ID: <Pine.SOL.3.94.960810072805.28983B-1000000@utkux4.utcc.utk.edu>

On Fri, 9 Aug 1996, Mark Carter wrote:  
> I think we're victims of the lack of HTML standards. People do up their  
> home pages using all kinds of nifty features, not realizing they only work  
> with one or two browsers. :-(

Amen!

If you check into the 10-10 home page  
(<http://www.lehigh.edu/lists/tenten-1/>), you will find at the bottom a  
link to small document called "The considerate page-maker's code." I

subscribe to it, as webmaster of a couple of sites devoted to strictly informational non-commercial purposes. Although tenten-1 is so far almost without graphics, other sites I maintain involve checking pages on at least 4 browsers of various ages and capabilities to ensure that the information is readable. Some features I do not use: for example, I still preformat tabled info rather than invoke the HTML tables codes, since many not-so-old browsers cannot handle tables. The only time I use tables codes is when I have assured myself that the results will appear neatly in a single column in non-table browsers and that the column will also convey the same information satisfactorily.

That sample is enough to give you the idea that I believe web sites are a responsibility as well as an opportunity. Sure, I make mistakes, and feedback helps me correct them, and perhaps the NORCAL site difficulty is only a slight slip. For instance, some browsers are sensitive to the exact spacing of elements in the BGCOLOR line, and if something is slightly out of line, it will either go to the browser default or (what is worse) it will make the text and background the same color. Remnant Word for Windows codes sometimes achieve this same goal.

There are fun pages, and I would not try to impose the considerate page-maker's code on those pages. There are commercial pages that will adopt whatever standards they wish, since they are paying the bill. However, since so much QRP information (and general ham radio information) is becoming available on WWW pages, I believe one could do worse than subscribe to the considerate page-maker's code.

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>  
Subject: [2391] Re: NorCal WWW Page  
Message-ID: <Pine.SOL.3.94.960810075316.28983D-100000@utkux4.utcc.utk.edu>

On Fri, 9 Aug 1996, Gary Surrency wrote:

> Guys, get a hold of Netscape and join the HTML world. It's even available  
> free on their web site for a limited time version.

Of course, this presumes that one has a WINSOCK on Windows 3.1 or Windows95 installed. Strange that we cheer those who use older rigs (even antique rigs), but demand that computer users get the latest software, rather than

trying to serve the largest number with what they happen to be using. If a page-maker assumes the reader must have the very latest, he/she cuts down the size of the target audience, especially in amateur radio circles.

There are many capable browsers besides Netscape. SlipKnot (which emulates a pre-tables Mosaic) works from a shell account having LYNX (but slowly). Spry Mosaic is equal to Netscape, and presents tables more attractively, but does not support a few alignment code options. Microsoft and OS-2 have explorers that are highly competent. Beware of free offers for some browsers (for example, the ATT version of Netscape): some are locked into the commercial server's system and cannot be easily made to work independently of a commercial subscription. Netscape can be downloaded every 30 days or so, if you want to stay both free and without crash, but to use it longer involves a registration for pay.

The world of web browsing is a fascinating walk in a forest.

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: "Frank G3YCC" <g3ycc@enterprise.net>  
Subject: [2396] Re: plastic boxes  
Message-ID: <199608101631.QAA17868@mail.enterprise.net>

Plastic boxes can be 'screened' by lining with aluminium cooking foil, making sure that there is contact all round. Secure with glue. However, if you want a see through box, I pass!

Bye.

--

Frank G3YCC  
Ham Radio QRP Web Page:  
<http://homepages.enterprise.net/g3ycc/>

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: "Bob Hirsch" <bobh@p3.net>  
Subject: [2406] Re: Plastic Boxes  
Message-ID: <199608101944.PAA02718@p3.net>

Try aluminum duct tape from the HVAC industry. Available at larger hardware stores and easier to use than glued foil.

=====

73 de Bob, AA30N

No Code, No HF....Know Code, Know HF!

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>  
Subject: [2399] Re: RPN RuLeZ  
Message-ID: <320cb584.pandora@pandora.lugs.org.sg>

On Sat, 10 Aug 1996 08:56:44 -0700, "Frank McCrackin" <wb6lma@cdsnet.net> wrote:  
> >paddle in the joystick port), I will be more than glad to post it, for the  
> >first time. It has a kind of a gray scale map in it as well plus a terminal  
> >window and DX-spotting. Oh well....

> Please do post your program. I, for one, would be very interested in  
> trying it out. Tnx and 72, Frank

Well, just tell me where to put it. The executable is already somewhere out there but the source code has never been released so I guess this is a QRP special. :-)

73 de 9V1ZV Daniel

--

Daniel Wee | daniel@pandora.lugs.org.sg  
9V1ZV | daniel.wee@f516.n600.z6.fidonet.org

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: Joe Everhart <n2cx@voicenet.com>  
Subject: [2395] Re: Slide Rules  
Message-ID: <199608101514.LAA00748@mail.voicenet.com>

Gang,

I can't let this thread without my comments...

When I went to tech school and college in the 60's and early 70's calculators weren't even available. Yeah we had one rich kid who bought an HP-35 his senior year, but it was all "slipsticks." I \*always\* went to class with my Pickett case strapped on. Even had a little "pocket Pickett" to whip out for a quick calculation. In those days final exams didn't involve very complicated calculations - fortunately.

By the time I got to Grad school, calculators were downright cheap. And the exams had caught up! A calculator has the same benefit as a computer - you can screw things up much more rapidly and efficiently. And it doesn't even take any skill to do an excellent botch job. Do I want to go back to my Pickett - not a chance!

Several years (and almost as many company mergers ago) we moved out of our old RCA buildings. In the move naturally there was much old stuff to be discarded. A bright young secretary was cleaning out her inherited desk and asked me "What is this thing?" It was an old circular slide rule that RCA had used as a giveaway some years earlier. She gladly gave it to me even though she didn't understand its purpose even when I explained it to her. She said something like "I guess you can measure with a stick slide ruler, but how can you do it with a circular one?"

I didn't care - I had wanted one of these "freebie jobs" for years and finally had my memento of the old company.

"Ah, nostalgia ain't what it used to be!"

OK, back to your key vs paddle vs keyboard thread...

72/73,

Joe E., N2CX

work: jeverhart@cayman.vf.mmc.com  
home: n2cx@voicenet.com

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>  
Subject: [2391] Re: The Nerd's Badge  
Message-ID: <Pine.SOL.3.94.960810080919.28983E-100000@utkux4.utcc.utk.edu>

On 10 Aug 1996, Dan Keen wrote:

> Did anybody go to engineering school in olden days (not me)? If so, then did  
> a professor use an oversized sliderule for teaching purposes? I mean a  
> RE-AH-LY huge one? If so, then just imagine if someone were to track down a  
> giant contraption like that and then hang it on a modern hamshack wall as a  
> sort of statue to nerdism <g>.  
>

Not a stature, but an indoor adjustable dipole, as you add metal to the fixed and sliding parts.

-73-

LB

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: faunt@netcom.com (Doug Faunt N6TQS +1-510-655-8604)  
Subject: [2380] Re: [2293] Trade in yer old KC-1?  
Message-ID: <199608100418.VAA12310@netcom9.netcom.com>

I'm pretty sure I have a complete, unbuilt KC-1 kit somewhere around here. If you don't get any other offers, I suspect I could look for it.

73, doug

From owner-qrp-1@Lehigh.EDU Sat Aug 10 23:12:42 1996  
From: jim parsons <k5rov@webstar.net>  
Subject: [2381] Re: [2372] KEYBOARD NOT CW?  
Message-ID: <1.5.4.16.19960809234210.19c77c80@webstar.net>

At 09:29 PM 8/9/96 -0700, you wrote:

>I suggest you learn to use the shift key on your keyboard, or even  
>type in all lower case. the last is better then all upper case.

>

>OM, REMEMBER, I AM AN OLD TIMER, RETIRED FROM THE MILITARY. WE WERE TRAINED ON A "MILL". A "MILL" IS AN ALL CAPS TYPEWRITER THAT WAS USED TO COPY CW. THERE WAS NO LOWER CASE ON DEDICATED CW TYPEWRITERS IN THE MILITARY, OR IN CIVILIAN ORGANIZATIONS THAT HAD OPERATORS COPYING CW. AT MY AGE, I HAVE NO INTENTION OF CHANGING AT THIS LATE DATE. THE PURPOSE OF THE LANGUAGE IS TO EXCHANGE THOUGHTS IN WORDS! IF YOU CAN READ WHAT I SAY, AND UNDERSTAND MY THOUGHTS, MY MESSAGE HAS GOTTEN ACROSS.

73 DE JIM, K5ROV